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Mochizuki

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(54) **DUAL-CHAMBERED MOLTEN METAL
HOLDING FURNACE FOR LOW PRESSURE
CASTING**

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(57) **ABSTRACT**

A dual-chambered molten metal holding furnace is for low pressure casting; producing cast products such as aluminum alloys using a low pressure casting method; and prevention of the gas release to the molten metal and the occurrence of air bubbles in the molten metal even when pressurized gas enters a material constituting the molten metal storage container. The part of a pressurizing chamber excluding a pressurizing pipe and a molten metal output pipe is opened to the atmosphere via an air passage gap positioned above a fixed molten metal surface level position L3. The air passage gap is positioned above the fixed molten metal surface level position L3. Even if pressurized gas is seeped into the material constituting a molten metal storage container via cracks or cracking subsequently occurred in the pressurizing pipe or minute gap originally present in the pressurizing pipe, the pressurized gas seeped from the air passage gap is released to the outside of the furnace.

6 Claims, 6 Drawing Sheets

